

## ATTACHMENT G

### WARGAMING OBJECTIVES

#### 1. Wargaming Support

1.1. Provide wargaming modeling & simulation applications maintenance.

1.1.1. Design and develop modifications to GIS, C2, and C4I applications in appropriate software language (C++, C#, .NET framework) for use with JFSC wargaming applications.

1.1.2. Conduct simulation software functional, regression, and unit testing and software documentation.

1.1.3. Historically this support has been provided by two FTEs.

1.1.4. Amplifying information:

A. Current Simulation AJCOM (Advanced Joint and Combined Operations Model)

B. Simulation of Joint/Operational level combat operations

C. PC Based application. Need to develop web/distributed capability. SQL database.

D. Current Programming Languages C++ & C##

E. Lines of Code: 45K

F. Other associated applications are GOTS/COTS. (Currently) C2PC (Command and Control Personal Computer); GCCS (Global Command and Control System); JFAST (Joint Flow and Analysis System for Transportation); HLS-RAM (Homeland Security Response Action Model) and Map Suite (terrain tool). AJCOM has an interface with these tools. Simulation uses standardized USMTF and JOPES formats.

G. Documentation: Standard documentation requirements and protocols for software development are used.

H. User Manuals: This is an electronic document that explains the GUI to the user. What input is expected and outcome format (message traffic, icon on GCCS or C2PC, etc.) Current documentation is baseline that is modified with program changes. Approximately 100 pages; each consists of a screen capture and diagram of where/how to input the data. The baseline already exists. this task is to keep it relevant and accurate as the software changes. Government will absorb any hard copy distribution requirements.

1.2. Provide scenario development support to JFSC curriculum exercises and wargames.

1.2.1. Conduct research and provide exercise injects for homeland security, humanitarian assistance/disaster relief and major combat operations scenarios.

1.2.2. Conduct research and provide changes to force structure and equipment changes to US, coalition and opposing forces used during JFSC wargames.

1.2.3. Support to logistics curriculum (deployment, employment, sustainment and redeployment).

1.2.3.1. Maintain liaison with USTRANSCOM for JFAST version changes.  
Provide integration testing to JFSC wargaming software baseline.

1.2.3.2. Maintain JFAST content repository.

1.2.3.3. Provide JFAST training to faculty and students.

1.2.3.4. Provide support to developing software tools that enhance the education of deployment, employment sustainment and redeployment of forces at the operational level.

1.2.4. Historically this support has been provided by one FTE.

1.2.5. Amplifying information:

Currently, there are three exercise themes: Homeland Security, Humanitarian Assistance/Disaster Relief, Major Combat operations. In conjunction with the JFSC faculty, the Contractor ensures that the exercise events can be represented in the simulation; recommends modifications to the simulation coordinating with the developers, and tests for accuracy prior to the exercise. There are 53 exercise events annually; however the three major exercise themes are updated on an annual cycle in coordination with the curriculum development cycle. The Contractor participates with the supported faculty as a technical advisor. The Government will define the injects for the Contractor to research. The scenario developer will work with the Contractor if the simulation requires further refinement to accurately represent a capability.

The Contractor will conduct annual training for the faculty during the curriculum recess (approx 25-35 faculty) with quarterly refresher training prior to that section of the curriculum. The Contractor will also update any new functionality to the GOTS program with the faculty members as it is fielded and installed on the college workstations

(typically an annual refresh). Expected interface with students is as a resident SME. No formal classes to the students are expected.

1.3. Provide simulation technical control during JFSC wargames.

1.3.1. Provide exercise technical controllers for JFSC curriculum supporting wargames. This includes pre-exercise coordination with the supported faculty, wargaming suite preparation, operating simulations and C4I systems, assisting students with wargaming tools.

1.3.2. Provide constructive after action recommendations for technical improvements to the wargaming processes.

1.3.3. Historically this quarterly exercise is for JCWS (14 seminars) and is one week in duration where additional support is required.